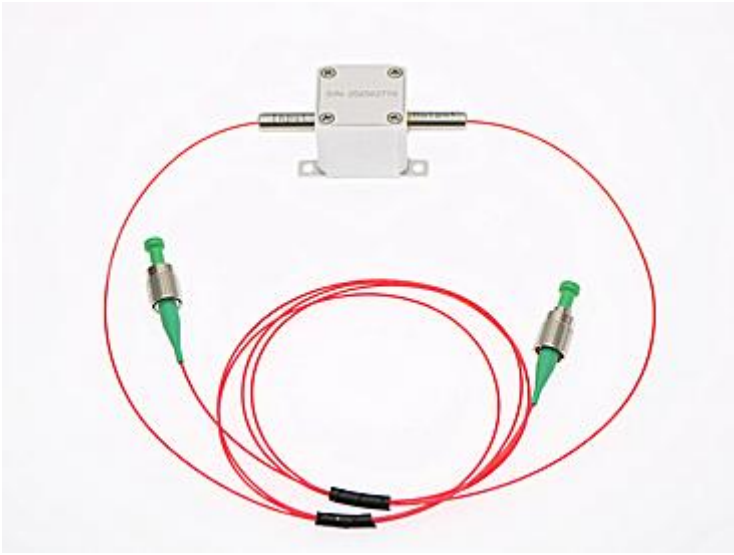
633nm polarization-maintaining fiber isolator



Product Description

Idealphotonics' visible light isolator products can maintain excellent return light isolation performance under any polarization state. It has low loss, high isolation, high return loss, low polarization-dependent loss, low polarization mode dispersion, wide operating band and operating temperature range, and no glue in the optical path. These properties provide the possibility of low-cost solutions for communication networks. This series of products can be used in RGB system research, fiber optic equipment and lasers. Our pigtails have better optical performance with the help of our SM600 single-mode optical fiber and HB600 polarization-maintaining optical fiber. The excellent performance makes it more compatible with our 633nm single-mode polarization-maintaining fiber coupler.

Part Number

VIS-ISO-W633-S22-P1-1-9-PA

● Product features

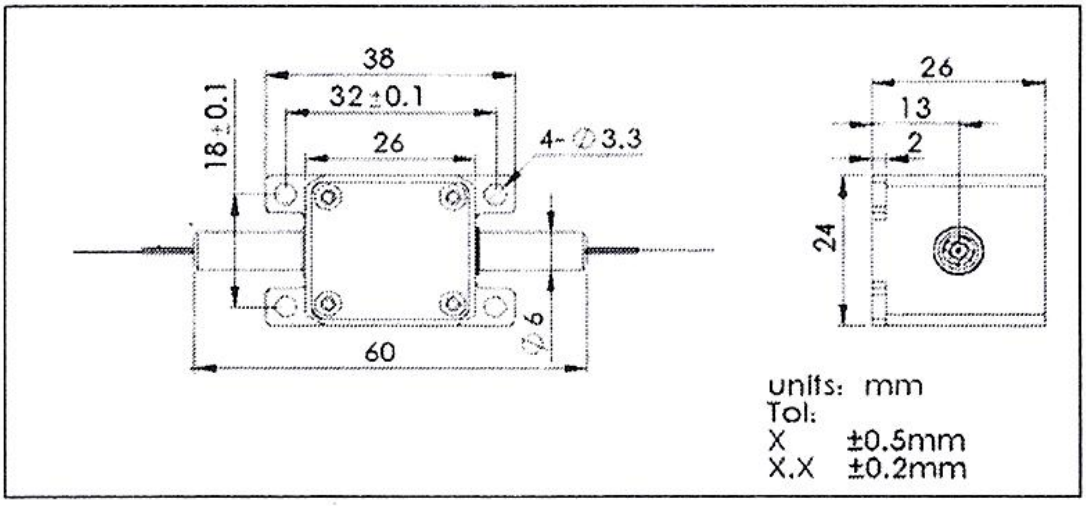
Wide operating wavelength rang & wide operating temperature range、 Low insertion loss & high isolation 、 Low polarization-dependence loss and polarization mode dispersion、 No glue in the optical path、 High reliability and stability

● Application area

Fiber amplifier、 WDM & DWDM system、 Fiber equipment、 Fiber laser

Parameters

Dimensional Drawing



Parameter

Parameters	Unit	Value	Note
Central wavelength (nm)	nm	633	Other wavelengths can be customized
Insertion loss	dB	≤4.5	633nm,3mw,DFB
Isolation	dB	≥16 single degree	@25 celsius
Polarization-dependent loss	dB	≤0.1dB	
Fiber type	N/A	Nufern PM630HP	Other fiber types available
Extinction ratio	dB	18	

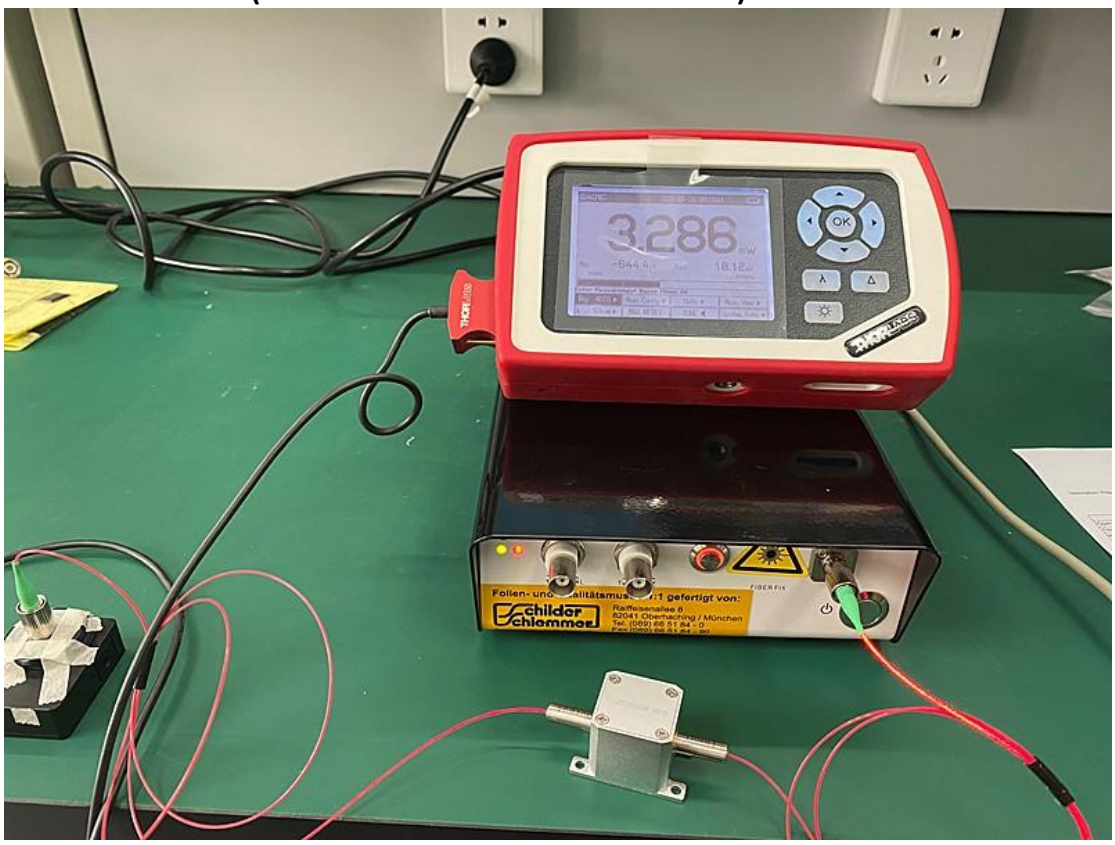
Axis alignment		Slow axis alignment
Polarization film dispersion	Ps	＜0.25
Polarization dispersion	Ps	＜0.05
Return loss (incoming/outgoing)	dB	>45dB
Maximum operating power	mW	500
Operating temperature	℃	-5-70℃
Storage temperature	℃	-40-85℃
Test light source		633nm benchtop light
Package size(mm)		As shown below

Notes:

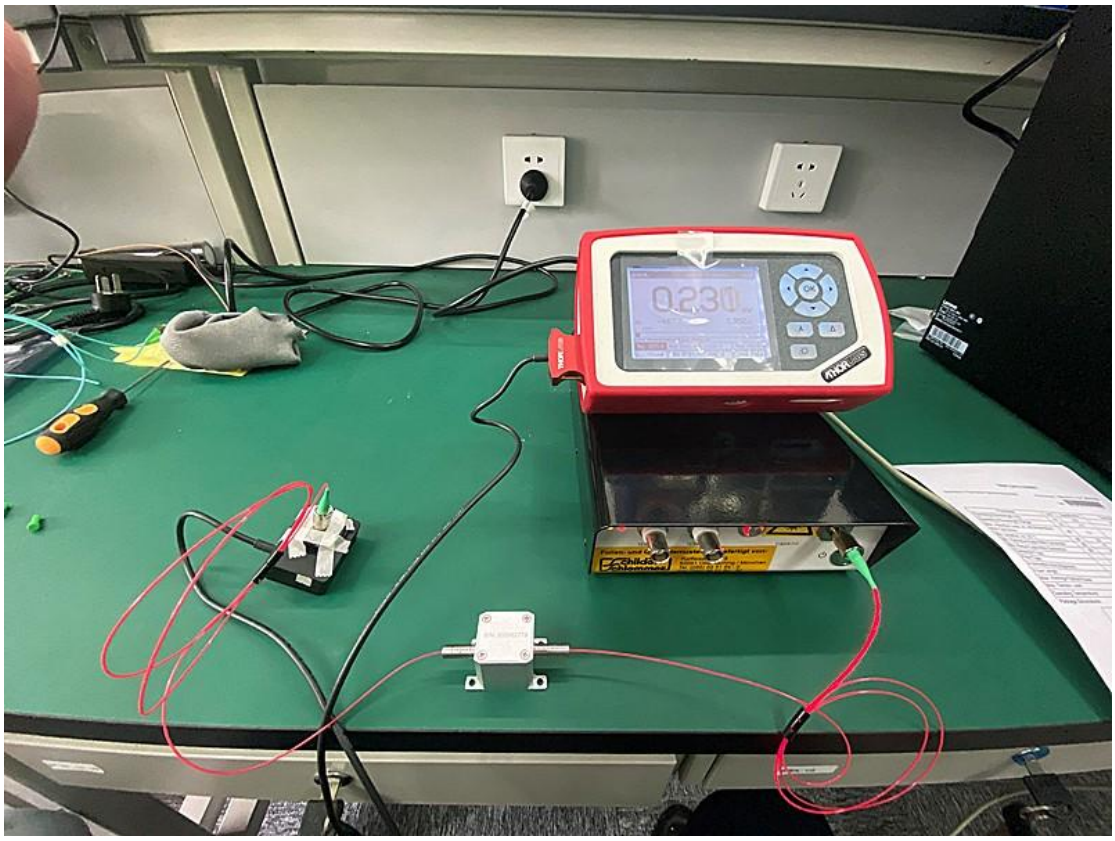
*. All indicators are without connectors and are only valid at the above wavelengths, polarization states and temperatures

**. Indicators are subject to change without prior notice

Actual test results (633nm 4.7mw DFB laser test results):



Forward



backward

Ordering Information

VIS-ISO- W□□□□-S○-P▽-☆-△-XX

W□ □□□：Wavelength

532:532nm

633:633nm

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850：850nm

S○：Stage Numbers

11: single pole isolator

P▽：Package

1: Standard

2：Mini

☆:Pigtail Length

05:0.5m

1：1m

10:10m

△：Loose Tube

B:Bare Fiber

9:900um Loose Tube
20:2mm Loose Tube
30: 2mm Loose Tube

XX: Fiber and Connector Type

SA=SM600+ FC/APC
SP=SM600+ FC/PC
PA=PM630 Fiber+ FC/APC
PP=PM630 Fiber+ FC/PC